

**Notice of Allowability**

Application No.

09/521,791

Examiner

Charles Chow

Applicant(s)

LI ET AL.

Art Unit

2685

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/8/2004.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 07 June 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**Detailed Action**

1. Applicant amended independent claim 20 to include the previous allowed features in claim 1, having the allowing handset to select the first communication channel if the handset is in a sufficiently close proximity to the personal base station and allowing the handset to select another communication channel including the second communication channel, only if the first communication channel is not selected without regarding to amplitude signals associated with the second public communication (the priority being given to the first communication). Therefore, claim 20 is allowable. Claim 1-19 were previously allowed in the final office action mailed 3/8/2004.

***Reason for Allowance***

2. Claims 1-20 are allowable over the prior art of record.

The following is the examiner's statement for the reasons of allowance:

The prior art fails to teach singly, particularly, or in combination, the subject matter for the integrated cable and cellular network system having wireless communication network integrated with a cable communication network, including at least one of a distribution hub and a headend connected to the wireless communication network, A personal base station system provides digital network interface to distribution network, including an interface unit operative to provide an air interface to cable network. A handset unit to select one of the first communication channel through person base station system to cable communication network and a second communication channel through public base station, based on information stored on the handset, priority being given to the first communication channel, and a database structure positioned in one of the cable communication network and the wireless

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communication network, including identification data to facilitate communication through one of the first and second communication channels, as shown in independent claims 1, 9, 16, 20. The dependent claims are also allowable due to their dependency upon the independent claims.

The closest patent to Hamilton-Piercy et al. (US 5,809,395) teaches a public mobile system integrated with the coaxial connected microcell system CCMS, having fiber cable 209 connections to the hub/headend radio base equipment RBSE (abstract, Fig. 1, Fig. 11, Fig. 13, col. 11, line 65; col. 1, lines 10-17; summary of invention). The mobile 206 can communicate with other RBS sites via microwave link 203 and can also communicate with the CCMS cable system via headend. However, Hamilton-Piercy fails to teach a handset unit to select one of the first and a second communication channel, based on information stored on the handset, and the priority being given to the first communication channel, therein a database structure is formed for including the identification data information to facilitate the channel communication for the handset.

Other prior arts in below has been considered, but they do not teach the above claimed features.

Raffel-'629 teaches a mobile station 12 can communicate with both the public base station 18 and the residential cordless base station 10 (Fig. 1, abstract). However, Raffel fail to teach the integration of wireless communication network with a cable network.

Chambers-'485, February 1999, Chambers et al. teaches the integrated fiber cable system has the remote node transceiver 14 for communication with subscriber stations 36, 38, 40, 52, 54 over the air (abstract, figure in cover page, Fig .1-5). The system comprises the modulator,

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demodulator, analog cable headend, internet server, hub, MUX, PSTN. However, Chambers fail to the other claimed features in the claims.

Chu-'055 teaches Chu et al. discloses the cable connected Hub 104 (abstract, Fig. 2, Fig. 1, summary of invention) for communicate with wireless device 10 over the air. The system comprises the personal base station (repeater 100-103). However, Chu fails to the other claimed features in the claims.

Gerszberg-'416 A1, March 2002, Gerszberg et al. discloses the synchronous optical network SONET-ring-Hub distribution network (figure in cover page, abstract, Fig. 1-17), for providing the billing services of the system for the videophone 130. However, Gerszberg fails to the other claimed features in the claims.

Any comments considered necessary by applicant must be submitter no later than the payment of the issue fee, and to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "comments on statement of reasons for allowance".

### ***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Chow whose telephone number is (703)-306-5615.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703)-305-4385.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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or faxed to: (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to 220 South 20th Street, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202 (Customer Window).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Charles Chow *CC*

November 1, 2004.

  
EDWARD F. URBAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600